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July 27, 1964

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Subject: Transmittal of Documents

Reference: Monthly Progress Report - Contract

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Gentlemen:

Enclosed please find two copies of the second monthly Progress Report for the Zoom Magnifier Project.

If you have any questions concerning this matter, please contact the writer directly.

Very truly yours,



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Photogrammetric Contracts Section

GJJ:bp
Enc.

Declass Review by NIMA/DOD

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Second Monthly Progress Report

For A

Zoom Magnifier

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This second monthly progress report covers the period 21 June 1964 to 20 July 1964.

This month's design effort was again expended on the optical zoom system. In particular the reduction of distortion to reasonable levels throughout the zoom range constituted the major portion of the optical design. The use of a symmetrical type zoom system minimized the system distortion to values of 11% at the high power, 6% at the middle of the zoom range, and 2% at the low power.

Good image quality as well as a field size of 15mm were achieved for the low power of 8X. At the higher powers, however, there was objectionable field curvature and coma. The attempt to reduce these aberrations will continue into the next month.

The major aberrations of this type of system, distortion and lateral color, are both under good control. In fact the design of the optical system is fairly well stabilized and is proceeding in a very satisfactory manner.

7/21/64



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